~~no.~~ 120

AF/217
/2700

FEE TRANSMITTAL
for FY 2004
Patent fees are subject to annual revision.

[ ] Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	$ 330

Complete if Known	
Application Number	09/844,916
Filing Date	4/26/2001
First Named Inventor	Andreas Dieberger
Examiner Name	Jean M. Corrielus
Art Unit	2172
Attorney Docket No.	ARC920010020US1

METHOD OF PAYMENT

[ ] Check [ ] Credit Card [ ] Money Order [ ] Other

[X] Deposit Account:

Deposit Account Number	09-0441
Deposit Account Name	IBM CORPORATION

The Director is authorized to: *(check all that apply)*

[X] Charge fee(s) indicated below   [X] Credit any overpayments

[X] Charge any additional fee(s) or any underpayment of fee(s)

[ ] Charge fee(s) indicated below, **except for the filing fee to the above-identified deposit account.**

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity			
Fee Code	Fee ($)	Fee Code	Fee ($)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
				SUBTOTAL (1)	$ 0

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims		Fee from below	Fee Paid
Total Claims		-20** =		X	=	
Independent Claims		-3** =		X	=	
Multiple Dependent					=	

Large Entity		Small Entity			
Fee Code	Fee ($)	Fee Code	Fee ($)	Fee Description	
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
				SUBTOTAL (2)	$ 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity			
Fee Code	Fee ($)	Fee Code	Fee ($)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge – late filing fee or oath	
1052	50	2052	25	Surcharge – late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for *ex parte* reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	465	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	1401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	330
1403	290	2403	145	Request for oral hearing	
1451	1,510	1452	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive – unavoidable	
1453	1,330	2453	665	Petition to revive – unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify): _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)	$330

Name (Print/Type)	Jaclyn A. Schade	Registration No. (Attorney/Agent)	50,569	Telephone	703-838-7683
Signature	*[signature]*			Date	March 23, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPEAL BRIEF- 37 C.F.R. § 1.192

U.S. Patent Application 09/844,916 entitled,

"Sound Pattern Feedback for Informational Events During Typing"

Real Party in Interest: International Business Machines Corporation

Related Appeals and Interferences:

None

Status of Claims:

Claims 1-22 are pending.

Claims 1, 5-9, and 13-22 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over

Ishikawa (USP 5,812,863).

Claims 2-4 and 10-12 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over

Ishikawa in view of Hon et al. (USP 6,490,563).

Status of Amendments:

Amendment filed 9/17/2003 was entered.

Summary of the Invention:

The presently claimed invention is a computer-based program using sound pattern

feedback to aid in the completion or correction of typographic and/or formatting events. Upon

recognition of a correlation, or "event," a sound pattern is selected by the program to indicate to

the user that a particular correlation has been found or that an event has occurred. Since a

different sound pattern is applied to each recognized correlation/event, the user can distinguish

and recognize the exact correlation or event noted by the system, allowing the user to decide to

disrupt work or continue without interruption. The program can also make a suggestion such as

an automatic entry or another suggestion such as a correction that can be optionally selected by a

user for substitution of the data being input based upon the correlation or event.

Specifically, the presently claimed invention assists in proper data entry formatting (such

as in web addresses, URLS, e-mail addresses, and phone numbers) and the completion of forms

and documents (such as in billing or ordering forms). Upon identification of these or other data

input that is identified to correlate with pre-stored information, a specific sound pattern is chosen

and reproduced to a user to indicate the correlation. For example, the program may relate a

sound pattern of three audible chimes to the completion of a user's address and phone number in

an ordering form. As the user begins to input data into the form, the program recognizes and

develdops a correlation between the data being input and the pre-stored data. Therefore, the

processing element chooses the sound pattern of the three audible chimes and reproduces the

chimes through the sound device to indicate to the user that the pre-stored information is

available should the user choose to select the information for substitution.

The Ishikawa reference used in the rejections as a prior art example does not disclose the

use of sound pattern feedback upon recognition of any of the above correlations or events.

Pending Claims (all citations are made from the original specification, including the figures):

1. A computer-based system providing selective sound patterns upon recognition of data

    input events *(page 7, lines 1-15)*, said system comprising:

    computer memory storing a plurality of data inputs *(element 104; and page 7,*

    lines 1-2);

    program memory retaining a plurality of prestored data inputs *(element 106; and*

    page 7, lines 4-5);

    processing element correlating said data inputs to one or more of said prestored

    data inputs *(page 7, lines 4-5)*, said correlation representing an event *(page 7,*

    lines 17-21) and comprising one or more of: a determination of a match between

    at least a partial data input to complete prestored entries *(figures 1 and 4; and*

    page 11, lines 11-18), determination of errors based on an evaluation of

    formatting of said data input *(figure 1, element 110; figure 3; page 10, lines 16-*

    22; page 8, lines 9-10 and 13-15; page 9, line 22; and page 10, lines 1-2), and

    determination of errors based on an evaluation of multiple data inputs to rules

    based logic *(figures 2 and 3; page 9, lines 12-13; and page 10, lines 11-12)*;

    wherein upon recognition of a correlation, said processing element selecting a

    specific sound pattern *(page 7, lines 6-8; and page 9, lines 15-19)* representative

    of said event *(page 7, lines 17-21; and page 10, lines 2-5)*, and

    a sound source *(figure 7, element 708)* reproducing said specific sound pattern

    (page 7, lines 8-9).

2.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, wherein one or more parts of said system are located locally or connected by networks comprising any of: LANs, WANs, cellular, Internet, Web or wireless web based connections *(page 13, lines 18-20)*.

3.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, wherein said rules based logic comprises one or more of: language, formatting, syntactical and grammatical rules *(figures 2, 3, and 6; page 9, lines 12-13; page 10, lines 18-22; and page 12, lines 18-20)*.

4.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, wherein said rules based logic comprises punctuation rules *(figure 2; and page 10, lines 12-13)*.

5.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, wherein said prestored data entries comprise programming language codes *(figure 6; and page 12, lines 8-14)*.

6.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, wherein said prestored data entries comprise any of, or a combination of, the following personal information: addresses, phone numbers, and social security numbers *(figure 4; page 11, lines 11-14; and page 7, lines 6-8)*.

7.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, wherein said formatting comprises any of: URLs, e-mail addresses, or entries to a standard template or electronic form *(figure 3; and page 10, lines 17-18)*.

8.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 1, further comprising an optional corrective action suggestion

to complete partial data inputs or correct data inputs with detected errors *(figures 1-4 and 6; page 7, lines 8-11; page 8, lines 10-13; page 9, lines 15-19; and page 11, lines 14-16)*.

9.   A computer-based system providing selective sound patterns upon recognition of improper formatting of data input events *(figure 3; and page 10, lines 18-22)*, said system comprising:

computer memory storing a plurality of data inputs *(element 304)*;

program memory retaining a plurality of prestored data inputs *(element 306)*;

processing element correlating said data inputs to one or more of said prestored data inputs *(page 10, lines 18-20)*, said correlation representing an event *(page 7, lines 17-21)* and comprising one or more of: a determination of a match between at least a partial data input to complete prestored entries *(figures 1 and 4; page 11, lines 11-18)*, determination of errors based on an evaluation of formatting of said data input *(figure 1, element 110; figure 3; page 8, lines 9-10 and 13-15; and page 10, lines 16-22)*, and determination of errors based on an evaluation of multiple data inputs to rules based logic *(figures 2 and 3; page 9, lines 12-13; and page 10, lines 11-12)*;

upon recognition of a correlation, said processing element selecting a specific sound pattern *(page 7, lines 6-8; and page 9, lines 15-19)* representative of said event *(page 7, lines 17-21; and page 10, lines 2-5)*;

a sound source *(figure 7, element 708)* reproducing said specific sound pattern *(page 7, lines 8-9)*, and wherein said processing element provides alternative data that can be optionally selected by a user for substitution of said data input based upon said correlation *(elements 116, 216, 316; page 7, lines 10-11; page 9, lines 15-19; and page 10, lines 18-22)*.

10.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein one or more parts of said system are located locally or connected by networks comprising any of: LANs, WANs, cellular, Internet, Web or

wireless web based connections *(page 13, lines 18-20)*.

11.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said rules based logic comprises one or more of: language, formatting, syntactical and grammatical rules *(figure 2, 3, and 6; page 9, lines 12-13; page 10, lines 18-22; and page 12, lines 18-20)*.

12.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said rules based logic comprises punctuation rules *(figure 2; and page 10, lines 12-13)*.

13.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said prestored data entries comprise programming language codes *(figure 6; and page 12, lines 8-14)*.

14.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said prestored data entries comprise any of, or a combination of, the following personal information: addresses, phone numbers, and social security numbers *(figure 4; page 11, lines 11-14; and page 7, lines 6-8)*.

15.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said formatting comprises any of: URLs, e-mail addresses, or entries to a standard template or electronic form *(figure 3; and page 10, lines 17-18)*.

16.   A method for notifying a computer user of specific word processing events *(figure 1, element 100; and page 7, lines 1-5)* by selected sound patterns, said method comprising the steps:

receiving word processing inputs *(element 102; and page 7, lines 1-2)*;

storing in computer memory said received word processing inputs *(element 104;*

and page 7, lines 1-2),

retrieving selected related word processing inputs from a library of prestored word processing inputs *(element 106; and page 7, lines 4-5)*;

comparing said received word processing inputs with said selected word processing inputs to determine an event comprising one or more of: a match between at least a received partial input to complete prestored word processing inputs *(figure 1, element 110; figure 4; and page 7, lines 5-6)*, errors based on an evaluation of formatting of said received inputs *(figures 3; page 8, lines 13-15; page 9, line 22; and page 10, lines 1-5)*, or errors based on an evaluation of multiple received inputs to rules based logic *(figure 2 and 3; page 9, lines 12-13; and page 10, lines 11-12)*,

selecting a specific sound pattern representative of said event *(element 112; page 7, lines 6-8; and page 9, lines 15-19)*, and

producing said selected sound pattern through a sound source *(figure 7, element 708; and page 7, lines 8-9)*.

17.   A method for notifying a computer user of specific word processing events by selected sound patterns, as per claim 16, further comprising the step of suggesting possible word processing inputs to complete or correct said received word processing inputs *(element 116)*.

18.   A method for notifying a computer user of specific word processing events by selected sound patterns, as per claim 16, wherein said match between partial inputs to complete received word processing inputs is determined by recognizing any of, or a combination of, the following personal information: personal addresses, phone numbers, and social security numbers *(figure 4; page 11, lines 11-14; page 7, lines 6-8)*.

19.   A method for notifying a computer user of specific word processing events by selected sound patterns, as per claim 16, wherein said evaluation of formatting of said received inputs further comprises the step of determining if the specific word processing events

comprise e-mail addresses, URLs, or entries for a template or a standard form *(figure 3; page 10, lines 17-18)*.

20. A method for notifying a computer user of specific word processing events by selected sound patterns, as per claim 16, wherein said sound pattern is modified to indicate the severity *(page 8, lines 1-7)* of a detected word processing event *(page 7, lines 17-21)*.

21. An article of manufacture comprising a computer program product *(figure 7)*, said computer program product comprising a computer usable medium having computer readable program code *(element 700; page 13, lines 20-22; and page 14, lines 1-8)*: said computer readable program code embodying a method comprising the steps of:

receiving computer inputs *(element 104; and page 7, lines 1-2)*;

storing in computer memory said received word processing inputs *(element 106; and page 7, lines 4-5)*,

retrieving selected related word processing inputs from a library of prestored word processing inputs *(page 7, lines 4-5)*;

comparing said received word processing inputs with said selected word processing inputs to determine an event *(page 7, lines 17-21)* comprising one or more of: a match between received partial inputs to complete prestored word processing inputs *(figures 1 and 4; and page 11, lines 11-18)*, errors based on an evaluation of formatting of said received inputs *(figure 1, element 110; figure 3; page 10, lines 16-22; page 8, lines 9-10 and 13-15; page 9, line 22; and page 10, lines 1-2)*, or errors based on an evaluation of multiple received inputs to rules based logic *(figures 2 and 3; page 9, lines 12-13; and page 10, lines 11-12)*, selecting a specific sound pattern *(page 7, lines 6-8; and page 9, lines 15-19)* representative of said event *(page 7, lines 17-21; and page 10, lines 2-5*, and producing said selected sound pattern *(page 7, lines 8-9)* through a sound source *(figure 7, element 708)*.

22. An article of manufacture comprising a computer program product, as per claim 21,

further comprising a step comprising an optional corrective action suggestion to complete partial data inputs or correct data inputs with detected errors *(figures 5 and 6; page 12, lines 1-4 and 8-14)*.

Grouping of Claims:

All claims stand or fall together (claims 1-22).

Issues:

1.   Was a proper rejection made under 35 U.S. C. § 103(a) using existing USPTO guidelines?

Argument:

<u>REJECTIONS UNDER 35 U.S.C. § 103(a)</u>

To establish a prima facie case of obviousness under U.S.C. § 103, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest <u>all</u> the claim limitations. Additionally, the teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, and not based on applicant's disclosure (In re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991)). Applicants contend, as will be seen from the arguments below, that the Examiner, based on the office action of 12/3/2003, has failed to establish a prima facie case of obviousness under 35 U.S.C. § 103 (a).

Claims 1, 5-9, and 13-22 under 35 U.S.C. § 103(a) are rejected as being unpatentable over U.S. Patent 5,812,863 (Ishikawa), hereafter Ishikawa.

It is believed that the applicant's main argument obviates even the minimum basis for a proper rejection under 35 U.S.C. § 103. Applicant's representative presented the argument (amendment dated 9/17/2003) that the main reference Ishikawa fails to disclose or even suggest

the claimed reproduction of a specific sound pattern through a sound source. This is explicitly

claimed in all claims. The primary reference (Ishikawa) does not provide, suggest, or even have

the basic need for this claimed function. Not only does Ishikawa not suggest this claimed

feature, there would have been no motivation to have looked to modify Ishikawa, as Ishikawa's

invention has no sound source. Rather, Ishikawa is a mistaken word processing apparatus that is

used to consider misspellings caused by the use of different phonetic (not audible) sounds used

to pronounce the same character in a different language. It recognizes the existence of a sound

which can not easily be recognized by someone whose mother tongue is different that the

language used in preparing a document (see Ishikawa, column 8, lines 52-65). It also recognizes

different sounds used to pronounces the same phonogram in the mother tongue of the operator.

Ishikawa can then notify the user of a detected word that may be spelled incorrectly.

It is important to recognize that the Ishikawa reference uses the term "sound" to mean a

"phonetic" pronunciation or recognized pattern and not an audible indication (something heard

by the user) of an event as in the present invention. Thus, the examiner's interpretation of the

Ishikawa reference does not encourage or make obvious the use of the present invention to

audibly notify the user of an event.

On pages 3 and 6 of his argument, the examiner explicitly states that Ishikawa does not

disclose the use wherein "upon recognition of a correlation, said processing element selects a

specific sound pattern representative of said event" and "a sound source reproducing said

specific sound pattern" as stated in the claims. Knowing such, the examiner continues to

correlate the word "sound" used in Ishikawa with the term "sound" used throughout the claims

of the present invention to represent an audible tone that is produced from a sound device.

Rather, the term "sound" as used in Ishikawa is a phonetic pronunciation or pattern of a word

that is created while speaking (see column 4, lines 21-25 and lines 53-67; column 5, lines 1-4).

The examiner reinforces this argument on pages 4 and 6 of the rejection, stating that Ishikawa

discloses the use wherein "of at least one of those causes of misspelling which are the difficulty

in recognizing and distinguishing due to the difference between the mother tongue and the

language used in preparing the document." Furthermore, the examiner also states that Ishikawa

discusses sounds used "to pronounce the same phonogram or different phonograms used to

indicate the sound in the language used to prepare the document." The examiner states that the

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use of selecting a specific sound pattern and reproducing the specific sound is implied and

therefore would have been obvious. However, the reproduction of an "audible sound" or pattern

to alert a user during the use of a program is not provided nor suggested. Ishikawa also does not

provide nor suggest the use of <u>any</u> audible sound device. The applicants specifically direct the

examiner to figures 1-16B in Ishikawa where no audible output is shown, and the corresponding

specification where no audible output is described or suggested. Additionally, the examiner

points to figure 4 of Ishikawa, on page 4, as incorporating the recognition of a correlation to

produce a sound. In fact, however, figure 4 shows an example of bit sequences that correspond

to British, American, Canadian, Scottish, Irish, etc. usage for corresponding to "standard words"

(see Ishikawa, column 9, lines 9-17). Therefore, Ishikawa can not provide the "sound" output as

required by the claims, nor could it have been obvious to have modified Ishikawa to produce the

"sound" using a sound device. Further, Ishikawa does not assist in reproducing particularly

chosen patterns for sound pattern feedback that assist in proper data entry formatting or the

completion of forms and documents. Thus the rejections and arguments on each of the

independent and dependent claims are null and void for the same argument as above.

**Claims 2-4 and 10-12 are rejected as being unpatentable over Ishikawa in view of U.S.
patent 6,490,563 (Hon), hereafter Hon.**

The secondary reference Hon was added to show support for recognizing and addressing

rules based logic. Hon, in combination with Ishikawa, does not, however, provide the

advantages achieved by the present invention, as suggested by the examiner. As previously

mentioned, Ishikawa does not explicitly disclose or suggest the use of a sound pattern feedback

device or the use of a sound device. Further, as noted by the examiner on page 8 of his

argument, Ishikawa does not explicitly disclose the use of rules-based logic comprising one or

more of: language formatting, syntactical and grammatical rules, or punctuation rules. While

Hon converts input text into an audio signal to play when detected, Hon <u>does not</u> provide the

advantage of <u>selecting a specific sound pattern</u> for a specific correlation or event so that a user

may identify the specific correlation or event. In addition, Hon does not specifically provide the

advantage of the present invention of particularly identifying a specific correlation or event with

a specific sound pattern. Again, this is explicitly claimed throughout the claims.

The examiner states, on page 8, that it would be obvious to modify Ishikawa (as in figure 4) to incorporate the rules based logic of Hon. However, there is no motivation to do so, as Ishikawa does not utilize a sound device or the selection of a specific sound pattern feedback.

SUMMARY

Ishikawa does not individually or in combination explicitly disclose that, wherein upon recognition of a correlation, the processing element selects a specific sound pattern representative of said event, and a sound source that is used to reproduce the specific sound pattern. More specifically, the use of any type of audible sound or sound device is not disclosed in Ishikawa. Further, there is no suggestion or motivation provided within Ishikawa to modify the program design to select a sound pattern for feedback to a user using a sound device, as provided by applicant's claimed invention.

As has been detailed above, none of the references, cited or applied, provide for the specific claimed details of applicant's presently claimed invention, nor render them obvious. It is believed that this case is in condition for allowance and reconsideration thereof and early issuance is respectfully requested.

As this Appeal Brief has been timely filed within the set period of response, no petition for extension of time or associated fee is required. However, the Commissioner is hereby authorized to charge any deficiencies in the fees provided, to include an extension of time, to Deposit Account No. 09-0441.

Respectfully submitted by
Applicant's Representative,

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Appendix:

1.   A computer-based system providing selective sound patterns upon recognition of data

input events, said system comprising:

computer memory storing a plurality of data inputs;

program memory retaining a plurality of prestored data inputs;

processing element correlating said data inputs to one or more of said prestored

data inputs, said correlation representing an event and comprising one or more of:

a determination of a match between at least a partial data input to complete

prestored entries, determination of errors based on an evaluation of formatting of

said data input, and determination of errors based on an evaluation of multiple

data inputs to rules based logic;

wherein upon recognition of a correlation, said processing element selecting a

specific sound pattern representative of said event, and

a sound source reproducing said specific sound pattern.

2.   A computer-based system providing selective sound patterns upon recognition of data

input events, as per claim 1, wherein one or more parts of said system are located locally

or connected by networks comprising any of: LANs, WANs, cellular, Internet, Web or

wireless web based connections.

3.   A computer-based system providing selective sound patterns upon recognition of data

input events, as per claim 1, wherein said rules based logic comprises one or more of:

language, formatting, syntactical and grammatical rules.

4.   A computer-based system providing selective sound patterns upon recognition of data

input events, as per claim 1, wherein said rules based logic comprises punctuation rules.

5.   A computer-based system providing selective sound patterns upon recognition of data

input events, as per claim 1, wherein said prestored data entries comprise programming

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language codes.

6.   A computer-based system providing selective sound patterns upon recognition of data
input events, as per claim 1, wherein said prestored data entries comprise any of, or a
combination of, the following personal information: addresses, phone numbers, and
social security numbers.

7.   A computer-based system providing selective sound patterns upon recognition of data
input events, as per claim 1, wherein said formatting comprises any of: URLs, e-mail
addresses, or entries to a standard template or electronic form.

8.   A computer-based system providing selective sound patterns upon recognition of data
input events, as per claim 1, further comprising an optional corrective action suggestion
to complete partial data inputs or correct data inputs with detected errors.

9.   A computer-based system providing selective sound patterns upon recognition of
improper formatting of data input events, said system comprising:

computer memory storing a plurality of data inputs;

program memory retaining a plurality of prestored data inputs;

processing element correlating said data inputs to one or more of said prestored

data inputs, said correlation representing an event and comprising one or more of:

a determination of a match between at least a partial data input to complete

prestored entries, determination of errors based on an evaluation of formatting of

said data input, and determination of errors based on an evaluation of multiple

data inputs to rules based logic;

upon recognition of a correlation, said processing element selecting a specific sound

pattern representative of said event;

a sound source reproducing said specific sound pattern, and wherein said

processing element provides alternative data that can be optionally selected by a user

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for substitution of said data input based upon said correlation.

10.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein one or more parts of said system are located locally or connected by networks comprising any of: LANs, WANs, cellular, Internet, Web or wireless web based connections.

11.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said rules based logic comprises one or more of: language, formatting, syntactical and grammatical rules.

12.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said rules based logic comprises punctuation rules.

13.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said prestored data entries comprise programming language codes.

14.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said prestored data entries comprise any of, or a combination of, the following personal information: addresses, phone numbers, and social security numbers.

15.   A computer-based system providing selective sound patterns upon recognition of data input events, as per claim 9, wherein said formatting comprises any of: URLs, e-mail addresses, or entries to a standard template or electronic form.

16.   A method for notifying a computer user of specific word processing events by selected sound patterns, said method comprising the steps:

receiving word processing inputs;

storing in computer memory said received word processing inputs,

retrieving selected related word processing inputs from a library of prestored

word processing inputs;

comparing said received word processing inputs with said selected word

processing inputs to determine an event comprising one or more of: a match

between at least a received partial input to complete prestored word processing

inputs, errors based on an evaluation of formatting of said received inputs, or

errors based on an evaluation of multiple received inputs to rules based logic,

selecting a specific sound pattern representative of said event, and

producing said selected sound pattern through a sound source.

17.   A method for notifying a computer user of specific word processing events by selected

sound patterns, as per claim 16, further comprising the step of suggesting possible word

processing inputs to complete or correct said received word processing inputs.

18.   A method for notifying a computer user of specific word processing events by selected

sound patterns, as per claim 16, wherein said match between partial inputs to complete

received word processing inputs is determined by recognizing any of, or a combination

of, the following personal information: personal addresses, phone numbers, and social

security numbers.

19.   A method for notifying a computer user of specific word processing events by selected

sound patterns, as per claim 16, wherein said evaluation of formatting of said received

inputs further comprises the step of determining if the specific word processing events

comprise e-mail addresses, URLs, or entries for a template or a standard form.

20.   A method for notifying a computer user of specific word processing events by selected

sound patterns, as per claim 16, wherein said sound pattern is modified to indicate the

severity of a detected word processing event.

21. An article of manufacture comprising a computer program product, said computer

program product comprising a computer usable medium having computer readable

program code:

said computer readable program code embodying a method comprising the steps of:

receiving computer inputs;

storing in computer memory said received word processing inputs,

retrieving selected related word processing inputs from a library of prestored

word processing inputs;

comparing said received word processing inputs with said selected word

processing inputs to determine an event comprising one or more of: a match

between received partial inputs to complete prestored word processing inputs,

errors based on an evaluation of formatting of said received inputs, or errors based

on an evaluation of multiple received inputs to rules based logic,

selecting a specific sound pattern representative of said event, and

producing said selected sound pattern through a sound source.

22. An article of manufacture comprising a computer program product, as per claim 21,

further comprising a step comprising an optional corrective action suggestion to complete

partial data inputs or correct data inputs with detected errors.